

WHAT WE CLAIM IS:

Claim 1. A method of manufacturing an electrode structure by coating a compound mixture comprising an electrode material, binder, and solvent onto a current-collecting member, directing warm breeze onto the compound mixture coating to gradually vaporize the solvent and form an electrode film on the current-collecting member.

Claim 2. The method for manufacturing an electrode structure according to claim 1, wherein the warm breeze is directed at 0.1-3m/second and is 60-150°C.

Claim 3. The method for manufacturing an electrode structure according to claim 1 or 2, wherein the warm breeze to be used is dry breeze.

Claim 4. The method for manufacturing an electrode structure according to claim 1, wherein the mixture contains a material capable of conducting electricity (conductive material).

Claim 5. A method of manufacturing a battery with electrode structures used as electrodes of said battery, wherein a compound mixture comprising an electrode active material, conductive material, binder, and solvent is coated onto a current-collecting member, warm breeze is directed onto the coating of mixed material to vaporize the solvent and to form an electrode film on the current-collecting member to constitute said electrode structure.

Claim 6. A method of manufacturing a battery with electrode structures as battery electrodes, wherein a compound mixture comprising a powdered electrode active substance coated with ion-conducting polymer, powdered electrically-conducting substance, and solvent is coated onto a current-collecting member, warm breeze is directed onto the coating of mixed material to vaporize the solvent and to form an electrode film on the current-collecting member to constitute said electrode structure.

Claim 7. A method of manufacturing an electrical double-layer capacitor with electrode structures as electrodes, wherein a compound mixture comprising a large surface area material, binder, and solvent is coated onto a current-collecting member, warm breeze is directed onto the coating of mixed material to vaporize the solvent and to form an electrode film on the current-collecting member to constitute said electrode structures.

Claim 8. A method of manufacturing a double-layer capacitor with electrode structures as electrodes, wherein a compound mixture comprising a large surface area material coated with ion-conducting polymer, powdered electrically-conducting substance, and solvent is coated onto a current-collecting member, warm breeze is directed onto the coating of mixed material to vaporize the solvent and to form an electrode film on the current-collecting member to constitute said electrode structures.